



2/5

RECEIVED

JUL 26 2002

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

TECH CENTER 1600/2900

[GGCTTCTCGTGGTTCCAGAGCCCTGCTTAATGGATGGAGACTGGACGAGAACCTGGCTG
CTGTGGTTCTGAACATGGCCCAGAG] CCCTGTGTCTGCCGAGGTCATTACACCAGGTGGAAG
AGTGTCTTGATGAAGACGAGAAGGAGATGATGCTCTTCTGTGTAGAGATGTGACTGAGA
ACCTGGCTGCACCTAACGTCAGGGACCTCCTGGATAGCTTAAGTGAGAGAGGCCAGCTCT
CTTTTGCTAC [CTTGGCTGAATTGCTCTACAGAGTGAGGCGGTTTGACCTTCTCAAGAGGA
TCTTGAAGACAGACAAAGCAACCGTGGAGGACCACCTGCGCAGAAAACCTCACCTGGTTT
CTGATTATAG] GGTCTGCTGATGGAGATTGGTGAGAGCTTAGATCAGAACGATGTATCCT
CCTTAGTTTTCTTACAAGGATTACAAGGGATTACACAGGCAGAGGCAAGATAGCCAAGG
ACAAGAGTTTCTTGGATCTGGTGATTGAATTGGAGAACTGAATCTAATTGCTTCAGACC
AATTGAATTTGTTAGAAAAATGCCTGAAGAACATCCACAGAATAGACTTGAACACAAAAGA
TCCAGAAGTACACCCAGTCCAGCCAAGGAGCAAGATCAAATATGAATACTCTCCAGGCTT
CGCTCCCCAAATTTAGATATCAAGTATACTCAAGGCTCCAGAATGGGCGAAGTAAAGAGC
CAAGATTTGTGGAATACCGTGACAGTCAAAGAACACTGGTGAAGACATCCATCCAGGAAT
CAGGAGCTTTTTTACCTCCGCACATCCGTGAAGAGACTTACAGGATGCAGAGCAAGCCCC
TAGGAATCTGCTTGATCATTGATTGTATTGGCAACGACACAAAATATCTTCAAGAGACCT
TCACTTCCCTGGGCTATCATATCCAGCTTTTCTTGTTTTCCCAAGTCACATGACATAACCC
AGATTGTTTCGCCGATATGCAAGTATGGCCCAACATCAAGACTATGACAGCTTTGCATGTG
TTCTGGTGAGCCTAGGAGGCTCCCAAGCATGATGGGCAGAGATCAAGTTCACTCAGGGT
TCTCCTTGGATCATGTCAAGAACATGTTTACGGGGGACACGTGCCCTTCTCTCAGAGGGA
AGCCAAAGCTCTTTTTTATTCAGAACTATGAGTCGTTAGGTAGCCAGTTGGAAGATAGCA
GCCTGGAGGTAGATGGCCCATCAATAAAAAATGTGGACTCTAAGCCCCTGCAACCCAGAC
ACTGCACAACCTACCCAGAAGCTGATATCTTTTGGAGCCTGTGCACAGCAGACGTATCTC
ACTTGAGAAGCCCTCCAGCTCATCTCTGTGTATCTGCAGAAGCTCTCCAGCAGCTGA
AGCAAGGCAGGAGACGCCCCTCGTGGACCTCCACGTTGAACCTCATGGACAAAAGTGTATG
CGTGGAACAGTGGTGTTCGTCTAAGGAGAAAATACAGCCTCAGCCTGCAGCACACTCTGA
GGAAGAACTCATCTGGCTCCTACGTGAGAACCCAGACCGTTGGTGTCTTGGTATAT
CATCCAGGTGGCGGCTTGGAGCAGAGCTTGGCGGTTACGGCTGCTTCTGGCTGCTTCTG
GCTCTGCCGTGAGTCTTGGCTTAGGGTTCTCCTGTGCACAGGCATGAGCCGTAACCCGTG
GCCTGGGAAACGTCTCACTCCCGCCGCGTGCCTTTACCTCTCTAACTTCCCTACTTAC
ATTCCCTAGTCGGATGTTTTGCCAGAGTGTGGAGAACAGTAAGACATAAAACCTATTGTTT
GTTTGTTTTTTTGGGGGGGAGGTTATCTACCAAGTTATACCAAGTTATTGTATGGGTGTA
TAGTGTATAGTGGTTCAAGATTCTGAATGTAACCTTGAGACTTACCTGAGTTTGTATGCG
ACTGGGTAAATGTTTCTATGGCACATCTAATCATTTAATAAGTAATTACCTCATTAAGT
ACCCATTGCTTCAGGACTTTTACATTGGCCACCAATTTCTGTGACCCAGCTCCACATTTA
TATTCTCTTTCGGCAAAACCAAATTTTATTATGTCTGTTTAAATATCTACAGTCTAATGCT
TTGTAAGACATCTAGATAGGAAAAATAGTTACCCATGAGCACAGGAGGGCTGGCCTGACC
CTCACCAGCTGTGCAGTGGCTTCGGTGAAAGGAGAATGAGCCCTACTCCTTGAAAGGTTG
TAGTGCTTGGGAGAGCAGTCTGTACCTTGCTGGGCAGCACAGTAGAGCCAGCCCCAAGA
ACACAACAGTGAGTGGGGGAGCTTGCCCTGGTTGGCTCAGGATCAGGAAACAGGAGGGAT
GACCAACTTGGGGCTTTGAGGTGGCCACCCAGCATCCATATCATCTGTGAACTGCCAG
AGCCTGTGAAGGGGCGGTCCTGTAGAACTAAGGCTGCAGGATCTCCATGACACAGGGCA
ACAACAGGGTATCTGAGAAGGGTCCCCGTGAGGGTCCAGTATTTATAGTGCACCAGAAGC
CAGAGGCCTCGGATCAGACAATGACCCATTGCACTGAGTAAAGATGTAAGTGAATGAGTG
AAGATGTGTGGGCACACGGAATACTGAGGGACACACACAAGCTTTTATGGAGATGTTTG
TTTGTTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG
GATAAGGAAGCTGGAGACATGAGTGGGGTGGGTGCATGATATAGAATTCACAAAGAAAA
AAAAAAAAAA (SEQ ID NO:1)

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FIGURE 2A